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NOTICE OF ALLOWANCE AND FEE(S) DUE

26191

7590

01/22/2009

FISH & RICHARDSON P.C. PO BOX 1022 MINNEAPOLIS, MN 55440-1022 EXAMINER
PHAN, TUANKHANH D
ART UNIT
PAPER NUMBER

2163 DATE MAILED: 01/22/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/784,568	02/23/2004	Srinivasan Ramasubramanian	08411-037001	8638

TITLE OF INVENTION: ACCESS MECHANISMS FOR EFFICIENT SHARING IN A NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	04/22/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
FISH & RICH PO BOX 1022 MINNEAPOLIS	7590 01/22 ARDSON P.C. 5, MN 55440-1022	/2009		Cert	ificate	of Mailing or Transı	
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/784,568 TITLE OF INVENTION	02/23/2004 I: ACCESS MECHANIS		rinivasan Ramasubramania HARING IN A NETWORK		(08411-037001	8638
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0		\$1055	04/22/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
PHAN, TUA	NKHANH D	2163	709-238000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Uni	ND RESIDENCE DATA	"Indication form ted. Use of a Customer A TO BE PRINTED ON To the design of the second secon	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attorned listed, no name will be THE PATENT (print or type data will appear on the part a substitute for filing an	rely, e firm (having as a gent) and the name meys or agents. If r printed. e) etent. If an assigne	memb s of u o nam	er a 2 p to le is 3	ocument has been filed for
4a. The following fee(s) ☐ Issue Fee ☐ Publication Fee (N	iate assignee category or	4l permitted)	(B) RESIDENCE: (CITY finted on the patent): D. Payment of Fee(s): (Pleating A check is enclosed. Payment by credit cart The Director is hereby overpayment, to Depo	Individual Cose first reapply and	rporati y prev	on or other private gro iously paid issue fee s	shown above)
NOTE: The Issue Fee an	s SMALL ENTITY stated	us. See 37 CFR 1.27.	b. Applicant is no long	ger claiming SMAL	L EN	ΓΙΤΥ status. See 37 CF	
•		tes Patent and Trademark					
Authorized Signature							
Typed or printed name			·				
an application. Confiden submitting the complete this form and/or suggesti	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	on is required to obtain or r 1.14. This collection is est depending upon the indive e Chief Information Office COMPLETED FORMS TO	imated to take 12 n idual case. Any cor r. U.S. Patent and "	ninutes mment Fraden	s to complete, including s on the amount of tin park Office, U.S. Depa	g gathering, preparing, and ne you require to complete artment of Commerce, P.O.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/784,568 02/23/2004		Srinivasan Ramasubramanian	08411-037001 8638		
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PO BOX 1022			ART UNIT	PAPER NUMBER	
MINNEAPOLIS, MN 55440-1022			2163		
			DATE MAILED: 01/22/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 799 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 799 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
Nation of Allowability	10/784,568	RAMASUBRAMANIAN ET AL.
Notice of Allowability	Examiner	Art Unit
	TUAN-KHANH PHAN	2163
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to 10/20/2008.		
2. X The allowed claim(s) is/are <u>1-21, 27-28 and 30-32</u> .		
 3.		
2. ☐ Certified copies of the priority documents have		
3. ☐ Copies of the certified copies of the priority do		
International Bureau (PCT Rule 17.2(a)).		5
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO	-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal I	Patent Application
 Notice of Neterences Gled (F10-092) DNotice of Draftperson's Patent Drawing Review (PT0-948) 	6. ☐ Interview Summary	
	Paper No./Mail Da	ate .
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. ☐ Examiner's Amend	menvComment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
of Biological Material	9. 🔲 Other	
/Т. К. Р./	/don wong/	
Examiner, Art Unit 2163	Supervisory Patent Ex	aminer, Art Unit 2163



Application No.

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Art Unit: 2163

DETAILED ACTION

1. This Action is responsive to the following communication: Pre-Appeal Request for Review, filed 10/20/2008. A telephonic communication was made with the Applicant on January 12, 2009 to confirm the cancellation of claims 22-26 and 29.

2. Claims 1, 3-21, 27-28 and 30-32 are pending. Claims 1, 11, 27 and 28 are independent claims. Claims 22-26 and 29 have been canceled.

Allowable Subject Matter

3. Claims 1, 3-21, 27-28 and 30-32 are allowed.

The following is an examiner's statement of reasons for allowance: Independent claims 1, 11, 27 and 28, when considered as a while, are allowable over the prior arts of record. Specifically, prior arts of record fail to clearly teach or fairly suggest the combination of following limitations:

• processing data on a specific one node in a network comprising a plurality of nodes configured in a topology in which data, to reach an intended destination node, are transmitted through a configured node-to-node sequence, each of the nodes having a different a node identifier that distinguishes the node from other nodes in the network comprising: i) if the transmission round identifier for the packet does not match a transmission round identifier for an immediately preceding received data packet, changing a first transmit buffer round indicator for a first transit buffer in the specific one node; ii) if the destination identifier for the data packet

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Art Unit: 2163

does not match the node identifier of the specific one node, storing the data packet in the first transit buffer for later transmission by the specific one node to another node in the first direction, the first data packet being stored with an assigned indicator of the current transit buffer round; and iii) if the destination identifier of the first data packet matches the node identifier, processing the data packet on the specific one node;

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- storing data packets originating at the specific one node in a first local buffer of the specific one node for later transmission by the specific one node to another node in the first direction;
- transmitting data packets from the specific one node in the first direction in successive transmission rounds, wherein each successive transmission round there is transmitted i) one ore more data packets from the first transit buffer that each have the same assigned transit buffer round identifier, if any data packets are present in the first transit buffer, and ii) one or more data packets from the first local buffer, if any data packets are present in the first local buffer.

The dependent claims further add limitations to the allowable subject matter of the corresponding independent claims; thus, they are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUAN-KHANH PHAN whose telephone number is (571)270-3047. The examiner can normally be reached on 4/5/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TKP

/don wong/

Supervisory Patent Examiner, Art Unit 2163